PASSAIC VALLEY SEWERAGE COMMISSIONERS
APPLICATION FOR A SEWER USE PERMIT

SECTION A

INDUSTRIAL
8110 8115 8120 8205
FEB 10 2003

1. Company Name ELEMENTIS SPECIALTIES
2. Permit Number if applicable: ~~31407242~~ 31220010
3. Location: 400 CLAREMONT AVE
JERSEY CITY Zip Code: 07304
4. Mailing Address ABOVE
Zip Code:
5. Person to contact concerning information provided in this application:
Name of Contact Official: Kimberley Tzap
Title: EH+S SPECIALIST Phone No. 201-395-5134
Address ABOVE Zip code
6. Number of Employees – Full Time: 56 Part Time: 0
Number of Work Days Per Year: 260
Number of Shifts Per Day: 1
7. If property is owned indicate block and lot number(s):
Block #1774 Lots 12 thru 35, 54 thru 68 69A, 70A, 72A
Assessed Value: 34,700,000 19 96
8. If property is rented indicate name and address of owner:
NA
Total square feet rented: NA
9. List NJPDES Permit Number if applicable, NA and
Name of receiving Body of Water entered NA

SECTION B

WATER DATA

10. Water Source: (Circle all appropriate answers)

Purchased	(Y) - N		
Well	Y - N	If Y, is it metered	Y - N
River	Y - N	If Y, is it metered	Y - N

11. Name of purchased water supplier: United Water Jersey City

List all Account #'s: 999-613-382, 999-665-621
999-613-604, 999-641-344, 999,613-503

12. Water Received: From Mo. 1 Yr. 2001 Through Mo. 12 Yr. 2001

(* Next to a figure means it is estimated).

	PURCHASED	WELL	RIVER	TOTAL
1st Qtr.	175,000			
2nd Qtr.	175,000			
3rd Qtr.	175,000			
4th Qtr.	175,000			

GRAND TOTAL 700,000*

Report in gallons

13. Water Use and Disposition (*Next to a figure means it is estimated).

	Gallons Sanitary/Combined Sewer	Discharged Stormwater/River/ Ditch	Gallons Used Other
Sanitary service only	300,000*	NA	
Process waste waster		↓	
Cooling water	341,000*	↓	
Evaporation			35000*
Contained in the product			24000*
Other (describe)			

GRAND TOTAL 700,000*

SECTION B (continued)

14. Process wastewater which is discharged as above is metered as follows:

To the Separate Sanitary Sewer	(Y) - N
To the Combined Sewer	(Y) - N
To the Storm Sewer	Y - N
River or Ditch	Y - N

15. Waste hauler information: List all firms and/or independent contractors used to remove process waste or sludge from this facility.

Contractor	Address	Icc #	Waste type handled
CARTAGE FREE HOLD	PO Box 5100 FREEHOLD NJ 07728	NC 154002	HAZARDOUS

SECTION C

OPERATIONAL CHARACTERISTICS

16. Discharge of Industrial Waste is continuous X

or intermittent _____ each operating day.

If the discharge is intermittent, it occurs between the following hours: _____

17. Brief description of Manufacturing or other activity performed: Manufacture pigment dispersions other additives for the paint industry

List SIC CODE #: 2851

18. Principal Raw Materials used: Solvents, Resins, pigments

19. Principal Products or Services: pigment dispersions

20. Describe seasonal variations, if significant, giving dates, volumes, rates, hours, etc. Include variations in product lines which affect waste characteristics: NA

Does this facility shutdown for vacation(s)? NO If so, is it basically the same time each year. _____ Provide dates usually shutdown _____

SECTION D

MONITORING

21. Describe any pretreatment process or effluent monitoring system in use:

Outlet None _____

Outlet _____ _____

Outlet _____ _____

22. Sampling information:

Outlet	Contains Industrial Waste	Sampler Type	Refrigerated
1	yes	ISCO	yes

SECTION D (continued)

23. Volume Information:

Outlet	Daily Flow (Gallons)	Metered (Y - N)	Type	Date
#2 (Sanitary)	1200	N		12/2001
#1 (Process + cooling)	1100	N		12/201
		N		

24. Frequency of calibration of each flow meter: NA

25. Attach plot plan of the property showing:

(a) all existing or proposed sewer and drain lines (including outlets to a storm sewer, river or ditch);

(b) sample point(s); Monitoring or Pretreatment Equipment; Incoming meter(s); Well meter(s); Internal meter (s); Flowmeter(s).

(c) details of the connection(s) to the municipal (or PVSC) sewer, including the distance and direction of each connection from the nearest street intersection.

SECTION E

ANALYSIS OF INDUSTRIAL WASTE

26. Analysis for Industrial Waste must be a proper sample taken for each outlet.

OUTLET NO. 001 Refer to attached.

Report to the nearest unit: XX. Except where indicated with (1) Example: 15 mg/l			Report to the nearest hundredth: 0.XX Except where indicated Example: 0.36 mg/l		
Code	Parameter	Value	Code	Parameter	Value
0200*	Radioactivity (PL-1)		1097*	Antimony (Sb)	<0.01
0500	Total Solids	604	1002*	Arsenic (As)	<0.01
0505	Volatile Solids	156	1022*	Boron (B)	<0.5
0530	Total Suspended Solids	19	1027	Cadmium (Cd)	<0.005
0540	Volatile Suspended Solids	10	1034*	Chromium, Total (Cr)	<0.010
0555	(1)(3) Petroleum Hydrocarbons	<1.00	1042	Copper (Cu)	0.382
0310	Biochemical Oxygen Demand (BOD)	45.1	1045*	Iron (Fe)	2.440
			1051	Lead (Pb)	<0.010
0340	Chemical Oxygen Demand (COD)	87.7	0720*(3)	Cyanide (Ca)	<0.020
			1900	Mercury (Report to 0.XXXX)	<0.001
0680	Total Organic Carbon (TOC)	55	1067	Nickel (Ni)	<0.010
			1147*	Selenium (Se)	<0.010
9000	pH(standard unit range)	6.74	1077*	Silver (Ag)	<0.005
0610	(1) Ammonia as N		1102*	Tin (Sn)	<0.250
0550	(1)(3) Total Oil & Grease	5.60	1092	Zinc (Zn)	0.164
0745*	(1) Sulfide	<0.0002	2730	Phenol	<0.05
0507*	(1) Ortho Phosphates as P		4053*	Pesticides (Report to 0.XXXX)	
0625*	(1) Kjeldahl N as N	3.27	0940*	Chlorides	
9998*	(2)(3) TTO (Report to 0.XXXX)	0.032	9999*(3)	TTVC (Report to 0.XXXX)	

FOOTNOTES:

(1) Report results to the nearest tenth, i.e., 1.6 mg/l.
(*) Analyze for this if reasonably expected to be present in the discharge unless otherwise exempted.
(2) See instructions.
(3) Grab sample required

Rev: 1/87
8/89
7/90
9/94
8/95
11/95
07/98

SECTION E (continued)

Samples collected by: Emilcott Associates, Inc

Date: monthly

Sample analyzed by: Analytical Testing Laboratories
Accredited Laboratories

Date: monthly

Products being manufactured when sample was collected: various

27. Who performs the analyses of the samples for User Charge? above

28. Is the Laboratory certified by NJDEP to conduct all the analyses? (Y) - N

29. Who performs the analyses of the samples for the Pretreatment Parameters?

NA

If monitoring has not commenced for Pretreatment, indicate Laboratory you plan to use. If unknown, so state:

NA

30. Is the Laboratory certified by NJDEP to conduct all the required Pretreatment analyses?

Y - N NA

31. Based upon knowledge of materials and processes used at this facility check the appropriate box that best describes the potential that a Priority Pollutant, listed on Tables 1,2 & 3 is present in your discharge.

SECTION F

PRETREATMENT

32. Industrial Category: NA - NO pretreatment
Subpart (s): _____

33. Compliance date(s): NA - NO pretreatment

34. Is facility in compliance? NA If not, and if compliance date has passed, explain actions being taken to get into compliance: _____

35. Date Baseline Monitoring Report (BMR) submitted to PVSC: NA

36. Compliance schedule submitted: NA
If yes is facility on schedule? _____ Explain if compliance date will not be met: _____

37. Does this facility come under the Resource Conservation and Recovery Act (RCRA)?
If yes, describe Generator

38. Does this facility have a Spill Prevention Control and Countermeasures (SPCC) plan?
If yes, describe DPCC plan as required by NJDEP

39. Has this facility even been cited by NJDEP or EPA for a violation of State or Federal Regulations for the nature of its wastewater discharge? Y - (N)

40. Is this facility under an ISRA Clean up? No If so, has a plan been approved by NJDEP: _____

Is there any plan to discharge groundwater?
Yes - new permit being requested

CERTIFICATION*:

The information contained in this application is familiar to me and, to the best of my knowledge and belief, such information is true, complete and accurate.

If the applicant is a corporation, a corporate resolution is attached granting me the authority sign the application on behalf of the corporation.

Name of signing official: Glenn R. Burchett

Print Name

TITLE: Plant Manager

2/11/03

DATE

SIGNATURE

*APPLICATION MUST BE SIGNED BY ONE OF THE FOLLOWING:

a. Principal Officer of Corporation

b. President or Owner of Company

c. General Partner if a Partnership

d. Plant Manager or Authorized Representative

TABLE 1 EPA PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
Acenaphthene			✓		2,4 dimethylphenol			✓	
acrolein			✓		2,4 dinitrotoluene			✓	
acrylonitrile			✓		2,6 dinitrotoluene			✓	
benzene			✓		1,2 diphenylhydrazine			✓	
benzidine			✓		ethylbenzene				✓
carbon tetrachloride (tetrachloromethane)			✓		fluoranthene			✓	
					4-chlorophenyl phenyl ether			✓	
chlorobenzene			✓		4-bromophenyl phenyl ether			✓	
1,2,4-trichchlorobenzene			✓		bis(2-chlorosispropyl) ether			✓	
hexachlorobenzene			✓		bis(2-chloroethoxy) methane			✓	
1,2 dichloroethane			✓		methylene chloride(dichloromethane)			✓	
1,1,1 trichlorethane			✓						
hexachloroethane			✓		methyl chloride (chloromethane)			✓	
1,1,dichloroethane			✓						
1,1,2 trichloroethane			✓		methyl bromide (bromomethane)			✓	
1,1,2,2 tetrachloroethane			✓						
chlorethane			✓		bromoform(tribomomethane)			✓	
bis(chloromethyl) ether			✓		dichlorobromomethane			✓	
Bis(2 chloroethyl) ether			✓		trichlorofluoromethane			✓	
2-chloroethyl vinyl ether mixed			✓		dichclorodifuoromethane			✓	
2-chloronaphthalene			✓		chlorodibromomethane			✓	
2,4,6, trichlorophenol			✓		hexachlorobutadiene			✓	
parachlorometa cresol			✓		hexachlorocyclopentadiene			✓	
Chloroform (trichloromethane)			✓		isophorone			✓	
2 chlorophenol			✓		naphthalene			✓	
1,2, dichlorobenzene			✓		nitrobenzene			✓	
1,3, dichlorobenzene			✓		2-nitrophenol			✓	
1,4, dichlorobenzene			✓		4-nitrophenol			✓	
3,3, dichlorobenzidine			✓		2,4-dinitrophenol			✓	
1,1,dichloroethylene			✓		4,6 dinitro-o cresol			✓	
1,2 trans-dichloroethylene			✓		N-nitrosodimethylamine			✓	
2,4,dichlorophenol			✓		N-nitrosodiphenlamine			✓	
1,2, dichloropropane			✓		N-nitrosodi-n-proplyamine			✓	
1,3, dichloropropylene			✓		pentachlorophenol			✓	
(1,3 dichclor propene)			✓		phenol			✓	

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 1 EPA PRIORITY POLLUTANTS (continued)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
bis(2-ethylhexyl) phthalate			✓		endrin			✓	
butylbenzylphthalate			✓		endrin aldahyde			✓	
di-n-butylphthalate			✓		heptachlor			✓	
di-n-octylphthalate			✓		heptachlor (epoxide)			✓	
diethylphthalate			✓		BHC Alpha			✓	
dimethylphthalate			✓		BHC Beta			✓	
benzo(a)anthracene			✓		BHC Gamma			✓	
benzo(a)pyrene			✓		BHC Delta			✓	
3,4 benzofluoranthene			✓		PCB1242			✓	
benzo(k) fluoranthane			✓		PCB1254			✓	
chrysene			✓		PCB1221			✓	
acenaphthylene			✓		PCB1232			✓	
anthracene			✓		PCB1248			✓	
benzo(ghi)perylene			✓		PCB1260			✓	
fluorene			✓		PCB1016			✓	
phenanthrene			✓		toxaphene			✓	
dibenzo (a,h) anthracene			✓		antimony(total)			✓	
indeno (1,2,3-c,d) pyrene			✓		arsenic (total			✓	
pyrene			✓		asbestos (fibrous)			✓	
tetrachloroethylene			✓		beryllium (total)			✓	
toluene				✓	cadmium (total)			✓	
trichloroethylene			✓		chromium (total)				✓
vinyl chloride			✓		copper (total)				✓
aldrin			✓		cyanide (total)			✓	
dieldrin			✓		lead (total)				✓
chlordane			✓		mercury (total)			✓	
4,4 DDT			✓		nickel (total)				✓
4,4, DDE			✓		selenium (total)			✓	
4,4, DDD			✓		silver (total)			✓	
endosulfan I			✓		thallium (total)			✓	
endosulfan II			✓		zinc (total)				✓
endosulfan sulfate			✓		2,3,7,8, tetrachlorodibenzo			✓	
					p-dioxin			✓	

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 2 NJDEP EXPANDED PRIORITY POLLUTANTS

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acrylamide			✓		n,n-dimethyl aniline			✓	
amitrole			✓		3,3-dimethyl benzidine			✓	
amyl alcohols			✓		1,1-dimethylhydrazine			✓	
anilne hydrochloride			✓		dioxane			✓	
anisole			✓		diphynylamine			✓	
auramine			✓		ethylenimine			✓	
benzotrichloride			✓		hydrazine			✓	
benzylamine					4,4-methylene bis			✓	
			✓		(2-chloraniline)			✓	
o-chloroaniline			✓		4,4-methylenedianiline			✓	
m-chloroaniline			✓		methyl isobutyl ketone			✓	
p-chloraniline			✓		alpha-naphthylamine			✓	
1-chloro-2-nitrobenzene			✓		beta-naphthylamine			✓	
1-chloro-4-nitrobenzene			✓		n-methylaniline			✓	
chloroprene			✓		1,2- phenylenediamine			✓	
chrysoidine			✓		1,3- phenylenediamine			✓	
cumene			✓		1,4-phenylenediamine			✓	
2,3-dichloroaniline			✓		sudan 1 (solvent yellow 14)			✓	
2,4-dichloroaniline			✓		thiourea			✓	
2,5-dichloroaniline			✓		toluene sulfonic acids			✓	
3,4-dichloroaniline			✓		toluidines			✓	
3,5-dichloroaniline			✓		xylidines			✓	
1,3-dichloropropene			✓						
1,3-dimethoxybenzidine			✓						

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
acetaldehyde			✓		isopropanolamine			✓	
allyl alcohol			✓		kelthane			✓	
allyl chloride			✓		kepone			✓	
amyl acetate			✓		malathion			✓	
aniline			✓		mercaptodimethur			✓	
benzonitrile			✓		methoxychlor			✓	
benzyl chloride			✓		methyl mercaptan			✓	
butyl acetate			✓		methyl methacrylate			✓	
butylamine			✓		methly parathion			✓	
captan			✓		mevinphos			✓	
carbaryl			✓		mexacarbate			✓	
carbofuran			✓		monoethylamine			✓	
carbon disulfide			✓		monomethylamine			✓	
chlorpyrifos			✓		naled			✓	
coumaphos			✓		napthenic acid			✓	
cresol			✓		nitrotoluene			✓	
crotonaldehyde			✓		parathion			✓	
cyclohexane			✓		phenolsulfanate			✓	
2,4-D (2,4-dichlorophenoxy)			✓		phosgene			✓	
acetic acid			✓		propagrite			✓	
diazinon			✓		propylene oxide			✓	
dicamba			✓		pyrethrins			✓	
dichlobenil			✓		quinoline			✓	
dichlone			✓		resorcinol			✓	
2,2-dichloropropionic acid			✓		strontium			✓	
dichlorvos			✓		strychnine			✓	
diethylamine			✓		styrene			✓	
dimethylamine			✓		2,4,5-T (2,4,5-trichloro-phenoxy acetic acid)			✓	
dinitrobenzene		✓			TDE (tetrachloro-diphenylethane)			✓	
diquat		✓			2,4,5-TP 2(2,4,5-trichlorophenoxy			✓	
disulfoton		✓			trichlorofon			✓	
diuron		✓			triethylamine			✓	
epichlorohydrin		✓			trimethylamine			✓	
					propanoic acid			✓	

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

TABLE 3 EPA HAZARDOUS SUBSTANCES (continued)

CHECK APPROPRIATE BOX

NAME	A	B	C	D		A	B	C	D
ethanolamine			✓		uranium			✓	
ethion			✓		vanadium			✓	
ethylene diamine			✓		vinyl acetate			✓	
ethylene dibromide			✓		xylene				✓
formaldehyde			✓		xylenol			✓	
furfural			✓		zirconium			✓	
guthion			✓						
isoprene			✓						

A. KNOWN TO BE PRESENT
B. SUSPECTED TO BE PRESENT
C. KNOWN TO BE ABSENT
D. SUSPECT TO BE ABSENT

SUPPLEMENTAL SEWER USE PERMIT APPLICATION QUESTIONNAIRE

The following questionnaire must be completed and submitted by all industrial and tax-exempt users making application for a SEWER USE PERMIT. The purpose of this questionnaire is to identify the correct name of the applicant for service of process and the individual to be contacted in the event of an emergency.

SECTION ONE
(To be completed by all applicants)

NAME OF APPLICANT: State the complete name of the organization applying for a SEWER USE PERMIT ("Permit"), as it appears on the certificate of incorporation, charter, by-laws, partnership agreement or other official document which establishes the name of the applicants (if no such document exists, state the name the business uses):

ELEMENTIS Specialties
Name of Applicant

TRADE NAME: Identify all trade names and/or fictitious names that the organization will utilize at the location(s) for which this Permit application is made.

Trade Name/Fictitious Name

BUSINESS ORGANIZATION: Please check the appropriate box:

- ☐ Sole proprietorship
- ☐ Partnership
- ☐ Limited Partnership
- ☒ Corporation
- ☐ Other (describe)
- ☐ Trust
- ☐ Joint Venture
- ☐ Non-Profit Corporation
- ☐ Limited Liability Company

EMERGENCY CONTACT PERSON: In the event of an emergency, provide the name, address and telephone number of the person(s) the PVSC can contact:

Name: Kimberley Tzap
Street Address: 400 Claremont Ave
City, State & Zip Code: Jersey City
Business Telephone: 201-395-6134
Emergency Telephone: 609-443-2000

(To be completed only by Corporations and Limited Liability Companies)

REGISTERED AGENT: Identify the name and address of the Corporations's Registered Agent:

Name: CT Corporation Systems

Company Name: JAF Station

Street Address: PO Box 1421

City, State & Zip Code: New York NY 10116-1421

DATE AND PLACE OF INCORPORATION/FORMATION: Identify the state where the corporation/LLC was organized and the date on which the Certificate of Incorporation/Formation was filed:

State: Delaware

Date: 11/4/92

DATE AUTHORIZED IN NEW JERSEY: If other than a New Jersey corporation/LLC, state the date on which the corporation/LLC received a Certificate of Authority to Transact Business in New Jersey (and attach copy).

Date: _____

SECTION THREE

(To be completed only by Partnerships or Joint Ventures)

FORM OF PARTNERSHIP: Check One.

☐ General partnership ☐ Limited Partnership

PARTNERS: Identify (by name, residence address, business address and daytime telephone number) each partner or joint venture. (attach additional sheets if necessary):

Name: _____

Street Address: _____

City, State & Zip Code: _____

Name: _____

Street Address: _____

City, State & Zip Code: _____

(This section to be completed only if the business concern is organized in a form other than a sole proprietorship, corporation, partnership or joint venture—such as a trust or association)

FORM OF BUSINESS ORGANIZATION: Describe how the business entity is organized and under what legal authority it was established.

CERTIFICATION

(All applicants must sign and date the following certification)

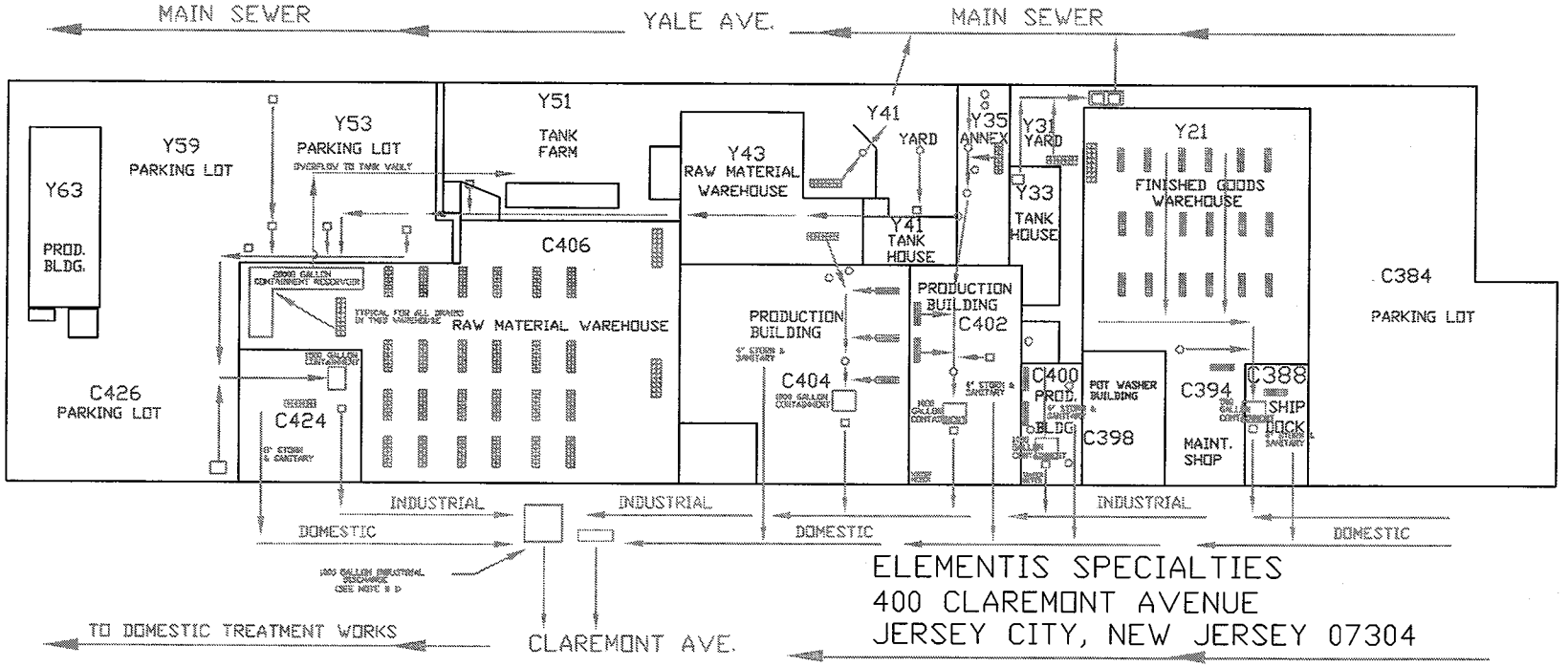
I hereby certify the answers supplied in the foregoing SUPPLEMENTAL SEWER USE PERMIT APPLICATION QUESTIONNAIRE are true. I am aware that if any of the foregoing responses are willfully false, I am subject to punishment.

Dated: 2/11/03

Signature

Plant Manager

Print Title & Position



ELEMENTIS SPECIALTIES
400 CLAREMONT AVENUE
JERSEY CITY, NEW JERSEY 07304

JERSEY CITY SEWERAGE AUTHORITY
550 ROUTE # 440, JERSEY CITY, NEW JERSEY 07304

PERMITTED BY:
PASSAIC VALLEY SEWERAGE COMMISSION
600 WILSON AVENUE
NEWARK, NEW JERSEY 07105

NOTE #1:
LOCAL LIMIT SAMPLING POINT
PRETREATMENT SAMPLING POINT

TO DOMESTIC TREATMENT WORKS

1994 AVERAGE DAILY FLOW 93,736 GALLONS PER DAY
1995 AVERAGE DAILY FLOW 43,310 GALLONS PER DAY
1996 AVERAGE DAILY FLOW 5,237 GALLONS PER DAY
1997 AVERAGE DAILY FLOW 3,967 GALLONS PER DAY
1998 AVERAGE DAILY FLOW 2,067 GALLONS PER DAY
1999 AVERAGE DAILY FLOW 199 GALLONS PER DAY
2000 AVERAGE DAILY FLOW 7 GALLONS PER DAY
2001 AVERAGE DAILY FLOW 59 GALLONS PER DAY

ACCREDITED LABORATORIES, INC.
Implementing Tomorrow's Technology, Today™...

Analytical Data Report

for

Analytical Testing Labs
840 Colfax Avenue PO Box 368
Kenilworth, NJ 07033

Project: Emilcott

Accredited Laboratories Case No.: 6459
Date Received: 06/07/02

Field ID	Laboratory Sample #
WASTEWATER	200206313

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

(732) 541-2025 *CORPORATE OFFICES* FAX (732) 541-1383
20 Pershing Avenue
Carteret, New Jersey 07008

Residue, Filterable or Total Dissolved Solids - EPA 160.1 (aqueous)

A 100 ml portion of aqueous sample is filtered through the glass fiber filter under vacuum. The filtrate is transferred to a pre-weighed evaporating dish and is evaporated to dryness on a steam bath. The evaporating dish is dried in an oven at 180± 2°C for at least 2 hours. The dish is then cooled in a desiccator and weighed to a constant weight. The analytical procedure is conducted in accordance with EPA Method 160.1.

Suspended Residue, Volatile - (EPA Method 160)

The analysis of suspended solid is first determined. The residue obtained from this analysis is ignited at 550°C in a muffle furnace. The loss of weight on ignition is termed as volatile suspended residue.

Residue, Volatile - EPA Method 160.4

The analysis of total, filterable or non-filterable residue is first determined. The residue obtained from these analyses is ignited at 550°C in a muffle furnace. The loss of weight on ignition is termed as volatile residue.

Total Organic Carbon - EPA Method 415.1 (aqueous)

Organic Carbon is converted to CO2 by catalytic combustion or wet chemical oxidation. The CO2 can be measured directly by an infrared detector. The amount of CO2 or CH4 is directly proportional to the concentration of carbonaceous material in the sample.

Sulfide - EPA Method 376.1 (aqueous)

Excess iodine is added into the acidic sample. The iodine oxidizes the sulfide to sulfur. The excess iodine is back titrated with phenylarsine oxide. The concentration of sulfide in the sample is calculated based on the iodine reacted.

Phenolics - EPA 420.1 (aqueous)

The aqueous sample is distilled in a distillation apparatus specified in the method. The phenolic material is reacted with 4-aminoantipyrine in the presence of potassium ferricyanide at a pH of 10 to form a stable reddish-brown antipyrine dye. The amount of color produced is a function of the concentration of phenolic material.

Total Kjeldahl Nitrogen - EPA 351.3 (aqueous)

A measured sample is digested by concentrated H2SO4 in a block digestor. The organic nitrogen compounds are converted to (NH4)2SO4. The ammonia in the digested sample is then distilled and determined potentiometrically with an ion selective electrode.

Color - EPA 110.2 (aqueous)

Color of sample is measured by visual comparison with platinum-cobalt standards.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Aqueous
SAMPLE NUMBER	VBLKC03	DILUTION FACTOR	1.0
DATA FILE	>C1910	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	06/10/02
FIELD ID		ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/L		MDL
67641	Acetone	U		1.8
107028	Acrolein	U		6.1
107131	Acrylonitrile	U		6.6
71432	Benzene	U		.4
75274	Bromodichloromethane	U		.4
75252	Bromoform	U		.4
74839	Bromomethane	U		2.0
78933	2-Butanone	U		.4
75150	Carbon Disulfide	U		.4
56235	Carbon Tetrachloride	U		.4
108907	Chlorobenzene	U		.4
75003	Chloroethane	U		2.0
110758	2-Chloroethylvinylether	U		2.0
67663	Chloroform	U		.4
74873	Chloromethane	U		2.0
124481	Dibromochloromethane	U		.4
75343	1,1-Dichloroethane	U		.4
107062	1,2-Dichloroethane	U		.4
75354	1,1-Dichloroethene	U		.4
156592	cis-1,2-Dichloroethene	U		.4
156605	trans-1,2-Dichloroethene	U		.4
78875	1,2-Dichloropropane	U		.4
10061015	cis-1,3-Dichloropropene	U		.4
10061026	trans-1,3-Dichloropropene	U		.4
100414	Ethylbenzene	U		1.0
591786	2-Hexanone	U		.9
75092	Methylene Chloride	2.1	W	1.0
108101	4-Methyl-2-pentanone	U		.7
100425	Styrene	U		.4
79345	1,1,2,2-Tetrachloroethane	U		.6
127184	Tetrachloroethene	U		.4
108883	Toluene	U		.5
71556	1,1,1-Trichloroethane	U		.4
79005	1,1,2-Trichloroethane	U		.4
79016	Trichloroethene	U		.4
75694	Trichlorofluoromethane	U		.4
108054	Vinyl Acetate	U		.8
75014	Vinyl Chloride	U		2.0
1330207	m,p-Xylene	U		2.8
95476	o-Xylene	U		2.1

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103 %	76-114	OK
Toluene-d8	93 %	88-110	OK
Bromofluorobenzene	96 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	6459	MATRIX	Aqueous
SAMPLE NUMBER	0206313	DILUTION FACTOR	1.0
DATA FILE	>C1918	DATE EXTRACTED	
CLIENT NAME	ATL	DATE ANALYZED	06/10/02
FIELD ID	WASTEWATER	ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/L		MDL
67641	Acetone	30		1.8
107028	Acrolein	U		6.1
107131	Acrylonitrile	U		6.6
71432	Benzene	U		.4
75274	Bromodichloromethane	U		.4
75252	Bromoform	U		.4
74839	Bromomethane	U		2.0
78933	2-Butanone	U		.4
75150	Carbon Disulfide	U		.4
56235	Carbon Tetrachloride	U		.4
108907	Chlorobenzene	U		.4
75003	Chloroethane	U		2.0
110758	2-Chloroethylvinylether	U		2.0
67663	Chloroform	U		.4
74873	Chloromethane	U		2.0
124481	Dibromochloromethane	U		.4
75343	1,1-Dichloroethane	U		.4
107062	1,2-Dichloroethane	U		.4
75354	1,1-Dichloroethene	U		.4
156592	cis-1,2-Dichloroethene	U		.4
156605	trans-1,2-Dichloroethene	U		.4
78875	1,2-Dichloropropane	U		.4
10061015	cis-1,3-Dichloropropene	U		.4
10061026	trans-1,3-Dichloropropene	U		.4
100414	Ethylbenzene	U		1.0
591786	2-Hexanone	U		.9
75092	Methylene Chloride	1.2	B	1.0
108101	4-Methyl-2-pentanone	U		.7
100425	Styrene	U		.4
79345	1,1,2,2-Tetrachloroethane	U		.6
127184	Tetrachloroethene	U		.4
108883	Toluene	U		.5
71556	1,1,1-Trichloroethane	U		.4
79005	1,1,2-Trichloroethane	U		.4
79016	Trichloroethene	U		.4
75694	Trichlorofluoromethane	U		.4
108054	Vinyl Acetate	U		.8
75014	Vinyl Chloride	U		2.0
1330207	m,p-Xylene	U		2.8
95476	o-Xylene	U		2.1

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	99 %	76-114	OK
Toluene-d8	95 %	88-110	OK
Bromofluorobenzene	94 %	86-115	OK

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
W - Result exceeds specific ground water quality criteria.*

* Flags are based on Specific Ground Water Quality Criteria from New Jersey Register dated February 1, 1993.

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 6459
Sample #: 0206313
Field ID: WASTEWATER
Client Name: ATL

Matrix: Aqueous
Date Received: 06/07/02

CAS No.	Element	Result UG/L	MDL UG/L	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	06/11/02
7440-38-2	Arsenic	ND	10.0	1	P	06/11/02
7440-39-3	Barium	161	15.0	1	P	06/11/02
7440-43-9	Cadmium	ND	5.00	1	P	06/11/02
7440-47-3	Chromium	ND	10.0	1	P	06/11/02
7440-50-8	Copper	82.0	20.0	1	P	06/11/02
7439-89-6	Iron	2440	50.0	1	P	06/11/02
7439-92-1	Lead	ND	10.0	1	P	06/11/02
7439-97-6	Mercury	ND	1.00	2	CV	06/10/02
7440-02-0	Nickel	ND	10.0	1	P	06/11/02
7782-49-2	Selenium	ND	10.0	1	P	06/11/02
7440-22-4	Silver	ND	5.00	1	P	06/11/02
7440-66-6	Zinc	164	100	1	P	06/11/02
7440-42-8	Boron	ND	500	1	P	06/11/02
7439-98-7	Molybdenum	ND	100	1	P	06/11/02
	Tin	ND	250	1	P	06/11/02

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBW513 Matrix: Aqueous
Field ID: PREPBLANK Date Prepared: 06/10/02

CAS No.	Element	Result UG/L	MDL UG/L	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	06/11/02
7440-38-2	Arsenic	ND	10.0	1	P	06/11/02
7440-39-3	Barium	ND	15.0	1	P	06/11/02
7440-43-9	Cadmium	ND	5.00	1	P	06/11/02
7440-47-3	Chromium	ND	10.0	1	P	06/11/02
7440-50-8	Copper	ND	20.0	1	P	06/11/02
7439-89-6	Iron	ND	50.0	1	P	06/11/02
7439-92-1	Lead	ND	10.0	1	P	06/11/02
7439-97-6	Mercury	ND	.500	1	CV	06/10/02
7440-02-0	Nickel	ND	10.0	1	P	06/11/02
7782-49-2	Selenium	ND	10.0	1	P	06/11/02
7440-22-4	Silver	ND	5.00	1	P	06/11/02
7440-66-6	Zinc	ND	100	1	P	06/11/02
7440-42-8	Boron	ND	500	1	P	06/11/02
7439-98-7	Molybdenum	ND	100	1	P	06/11/02
	Tin	ND	250	1	P	06/11/02

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 6459
Sample #: 0206313
Client Name: ATL
Field Number: WASTEWATER

Matrix: Aqueous
Date Received: 06/07/02

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Color	276.	0	C.U.	1.	0	0	06/07/02
Phenols, Total	ND	.05	mg/L	1.	ND	.05	06/10/02
Sulfide	ND	0.20	mg/L	1.	ND	0.20	06/13/02
Solids, Total Dissolved	557.	2.0	mg/L	1.	ND	2.0	06/10/02
Nitrogen, Total Kjeldahl	3.27	0.50	mg/L	1.	ND	0.50	06/07/02
Carbon, Total Organic	55.	1.	mg/L	1.	ND	1.	06/07/02
Solids, Total	604.	2.0	mg/L	1.	ND	2.0	06/11/02
Solids, Volatile	156.	2.0	mg/L	1.	ND	2.0	06/11/02
Solids, Volatile Suspended	10.	2.0	mg/L	1.	ND	2.0	06/11/02

ANALYTICAL TESTING LABORATORIES

NJDEP CERTIFICATION NO. 20477
PO BOX 368, KENILWORTH N.J. 07033 (908)241-5040 fax (908)241-5356

ANALYSIS REPORT

ATT: DIANN CUCCHISI
EMILCOTT ASSOCIATES, INC
466 SOUTHERN BLVD
CHATHAM, NEW JERSEY 07928-1462

CODE NO: 20131
DATE RECEIVED: 06/07/02
DATE SENT: 06/14/02
SAMPLE TYPE: WATER

SAMPLE ID: JERSEY CITY NJ FACILITY

SAMPLE NO	PARAMETER	RESULT	ANALYZED	UNITS	MDL	METHOD
06/07/02						
20131-01	BOD	45.1	06/12/02	mg/L	2.00	405.1
	TSS	19.0	06/07/02	mg/L	4.00	160.2
	COD	87.7	06/11/02	mg/L	5.00	410.1
	CYANIDE, total	< 0.020	06/11/02	mg/L	0.020	335.2
	TPHC	< 1.00	06/12/02	mg/L	1.00	418.1
	OIL/GREASE	5.60	06/11/02	mg/L	5.00	413.1
	pH	6.74	06/07/02			150.1

REMARKS: MDL = METHOD DETECTION LIMIT
J = DETECTED BUT BELOW MDL

Rose M Koplin
ROSE M. KOPLIN
DIRECTOR

MAR 27 '03 11:52 FR ELEMENTIS MFG DEPT 609 443 2482 TO 919733444876 P.01/03

MANUFACTURING DEPARTMENT
FAX TRANSMISSION

ELEMENTIS
SPECIALTIES

Date: 3/27/03

Wyckoffs Mill Road
P.O. Box 700
Hightstown, New Jersey 08520
Fax: (609) 443-2482

PLEASE DELIVER THE FOLLOWING PAGES TO:

To: Mark Picinich

Company: PVSC

Fax Number: 973-817-5986

From: Kim Tzap

Subject: Permit

INDUSTRIAL 116-606
8110 8115 8120 8205
MAR 27 2003

Message: Here are the forms you need Please let me know if you have any questions. Thanks for your help. Kim

Original Document: _____ WILL FOLLOW VIA REGULAR MAIL
WILL FOLLOW VIA EXPRESS DELIVERY
WILL NOT FOLLOW
OTHER _____

NUMBER OF PAGES INCLUDING COVER SHEET _____

IF YOU HAVE PROBLEMS RECEIVING THIS FAX PLEASE CALL 609-443-2445

ELEMENTIS
SPECIALTIES

FAX COVER SHEET

Fax No: _____

To: Mark Picinich

Date: 3/24/03

No of Pages (+ Cover): 4

From: Kim Tzap

Sender's Fax No: _____

Re: Permit Renewal

MESSAGE

Mark:

Here are the pages you and I discussed. I made the changes you requested. I have a question on page 6 of 17. So I will give you a call.

Thanks,
Kim Tzap

Colorants and Additives

400 Claremont Avenue
Jersey City, New Jersey 07304

Telephone: (201) 432 - 0800
Facsimile: (201) 432 - 0266

If all pages have not been satisfactorily received please telephone immediately.

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, NJ 07105
(973) 344-1800
Fax: (973) 344-2951
www.pvsc.com
Industrial Department
Fax: (973) 344-4876

July 15, 2002

CERTIFIED RECEIPT
7099 3400 0000 0040 8851

Elementis Specialties, Inc.
P.O. Box 700
Wyckoffs Mill Road
Hightstown, NJ 08520
Attn: Kimberley A. Tzap

RE: REQUEST TO DISCHARGE DILUTE WASTEWATER

Dear Ms. Tzap:

In response to your request to discharge dilute wastewater at Elementis Specialties, Inc. 400 Claremont Avenue, Jersey City, NJ; enclosed is an application that must be completed and returned to PVSC. An application fee of $750.00 must be submitted with the application. In addition, a fee of $150.00 is also required for the issuance of a Letter of Authorization, for a one-time discharge, or a $200.00 annual fee for a Temporary Permit that allows the discharge for a period not to exceed one year. The Temporary Permit may be renewed for one additional year, if necessary, which would require an additional $200.00 annual fee.

It is important to note that the discharge will also be subject to a surcharge that is currently being established by PVSC. If you discharge prior to the rate being fixed, PVSC will invoice you retroactively for the volume you have discharged.

If the proposed discharge requires the installation of a new connection to the sewer, this discharge will also be subject to a Sewer Connection Fee.

If you need further assistance in this matter, please contact Bruce L. Wrede at (973) 817-5714

Very truly yours,
PASSAIC VALLEY SEWERAGE COMMISSIONERS

Andy Caltagirone
Manager of Industrial & Pollution Control

Enclosure

AC/cf

C: Robert J. Davenport, Executive Director
George McGehrin
Carmen DellaPia
Bruce L. Wrede

70-08-84-099-099-
#245310 - 830002

ELEMENTIS SPECIALTIES

FLEET BANK
Goldens Bridge
Route 22
Goldens Bridge, NY 10526

Elementis Specialties, Inc.
P.O. Box 700
Hightstown, NJ 08520

Check Number 163947

1-32
219

Date 11/14/2002

Dollars	Cents
$********750.00	

Not Valid For Amounts
Of $10,000 Or More Unless
Manually Countersigned

Elementis Specialties, Inc.

Seven Hundred and Fifty and 00/100 Dollars

Pay To
The
Order Of

PASSAIC VALLEY SEWERAGE COMM
600 WILSON AVE
NEWARK NJ 07105

700548

⑈163947⑈ ⑆021900325⑆ 94057 78305⑈

Received from: Elementis

Address: 40 Claremont Ave

Amount of Payment: 750.00

Date of Payment 2/10/03

Payment Received by: N. Tilli

Signature:

Amount: $900 -

Date: 2-20-03

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(973) 344-1800
Fax: (973) 344-2951
www.pvsc.com

Industrial Fax: (973) 344-4876

RECEIPT FOR

APPLICATION FEE

PERMIT FEE

Received from: Elementis

Address: 40 Claremont Ave

Amount of Payment: 750.00

Date of Payment 2/10/03

Payment Received by: N. T. Hill,

Signature: [signature]

Amount: $900 - Date: 2-20-03

APPLICATION FOR A SEWER USE PERMIT

SECTION A

INDUSTRIAL
8110 8115 8120 8205
FEB 10 2003

1. Company Name ELEMENTIS SPECIALTIES
2. Permit Number if applicable: 31407242
3. Location: 400 CLAREMONT AVE
JERSEY CITY
4. Mailing Address ABOVE Zip Code: 07304
Zip Code:
5. Person to contact concerning information provided in this application:
Name of Contact Official: Kimberley Tzap
Title: EH+S SPECIALIST
Address ABOVE Phone No. 201-395-5134
Zip code
6. Number of Employees – Full Time: 56 Part Time: 0
Number of Work Days Per Year: 260
Number of Shifts Per Day

IS MULTI-TONE SECURITY DOCUMENT. ■ CHECK BACKGROUND AREA CHANGES COLOR GRADUALLY FROM TOP TO BOTTOM.

Elementis Specialties, Inc
P.O. Box 700
Hightstown, NJ 08520

Check Number 163947

1-32
219

Date 11/14/2002

Dollars	Cents
$********750.00	

Not Valid For Amounts Of $10,000 Or More Unless Manually Countersigned

Elementis Specialties, Inc.

100 Dollars

VALLEY SEWERAGE COMM
WILSON AVE
NEWARK NJ 07105

700548

⑈163947⑈ ⑆021900325⑆ 94057 78305⑈

159805

1 of 17